

FIG.1

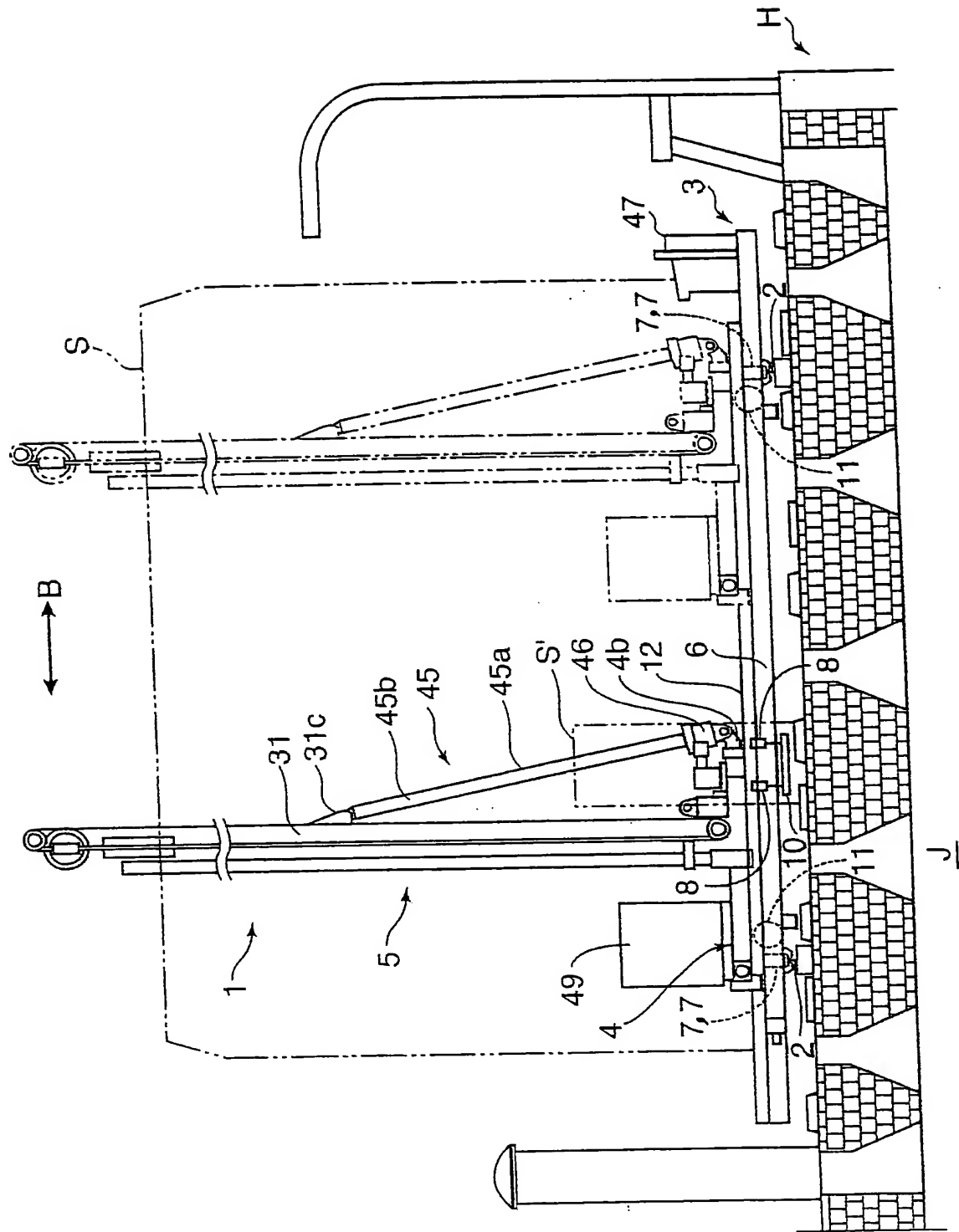


FIG.2

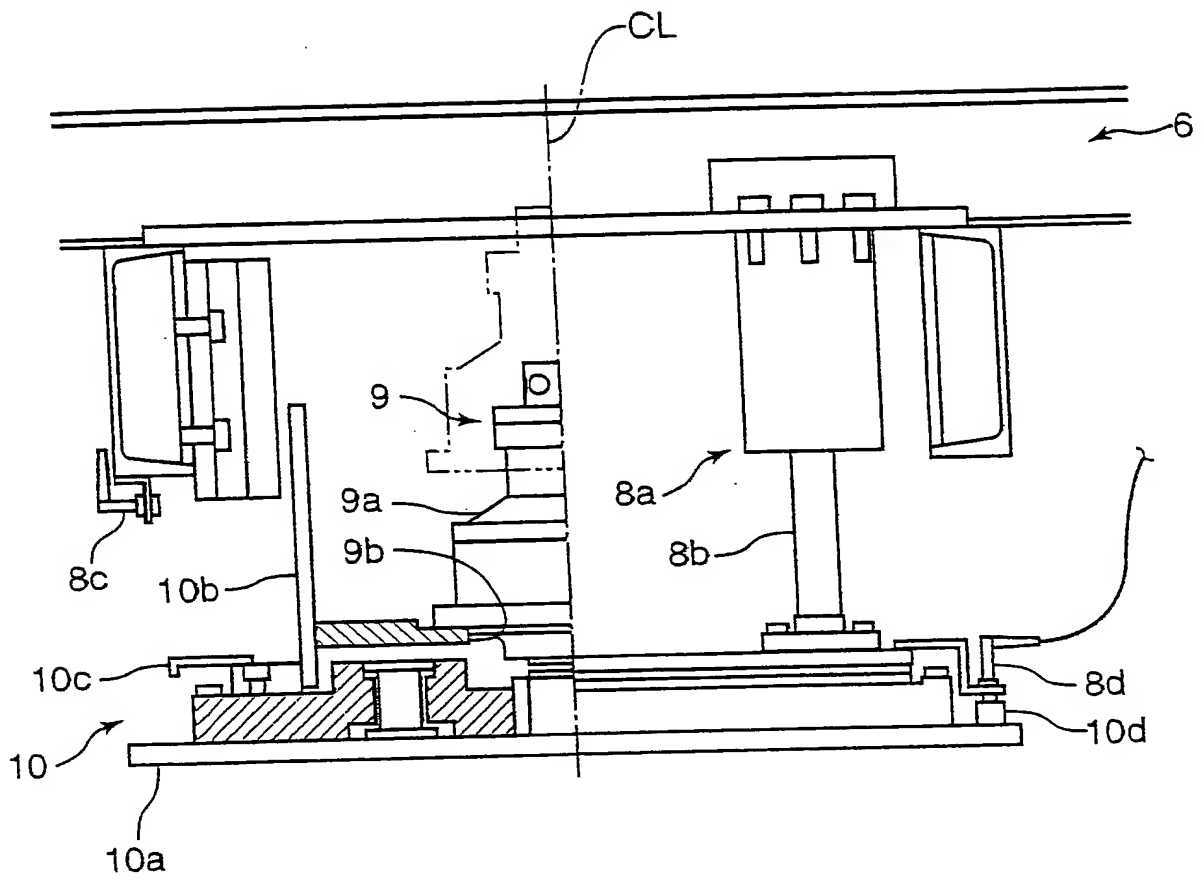


FIG.3

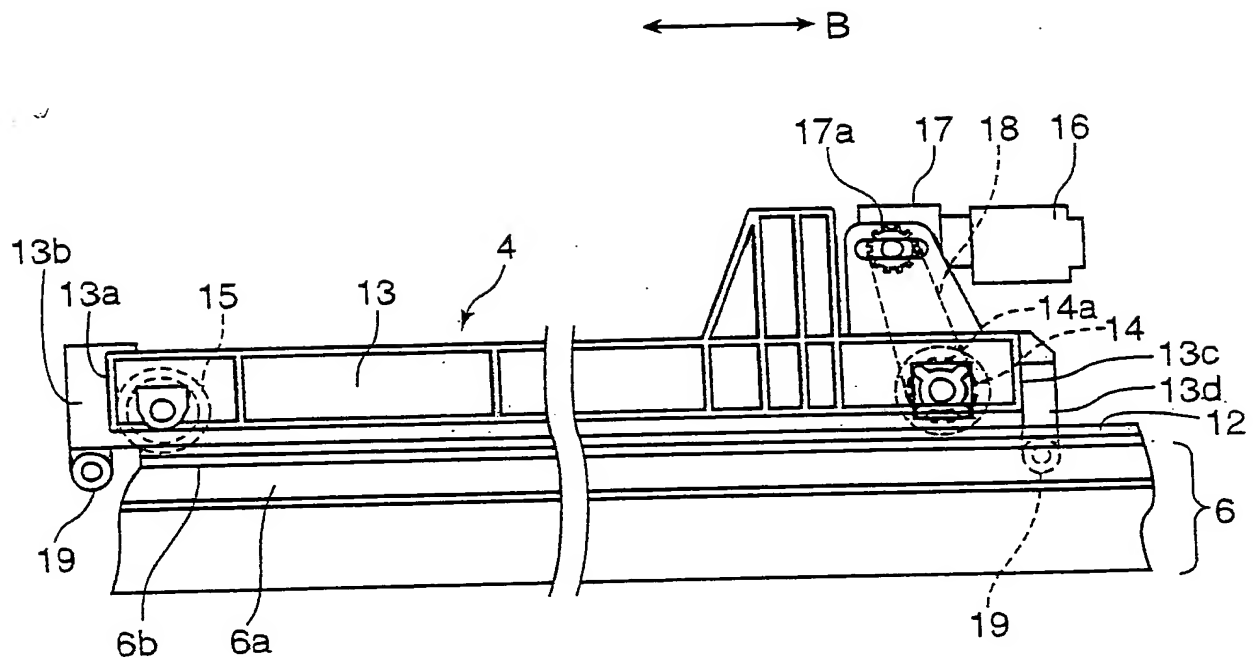


FIG. 4

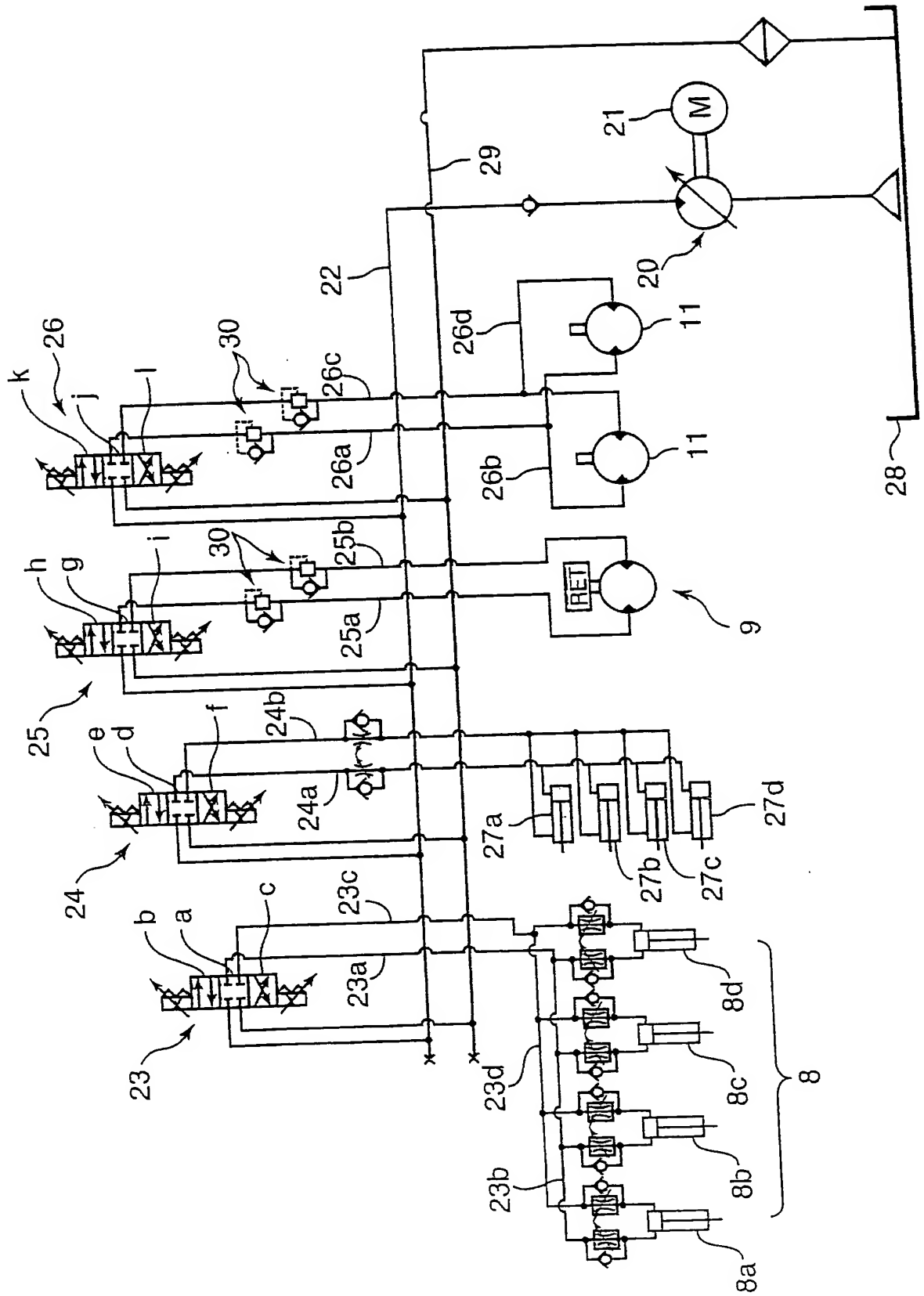


FIG.5

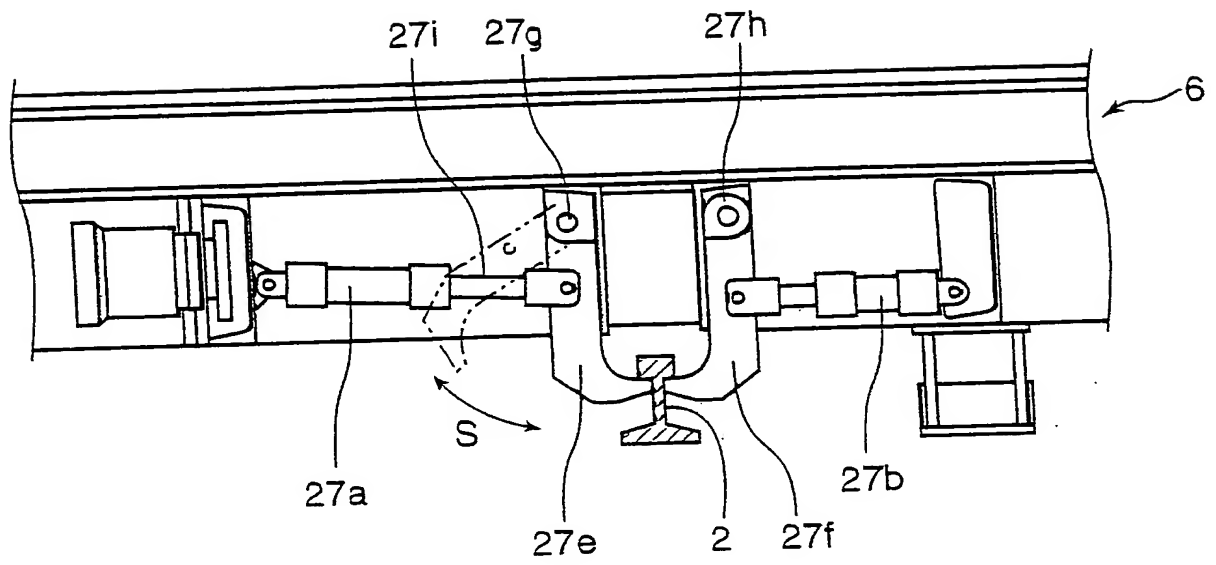


FIG.6

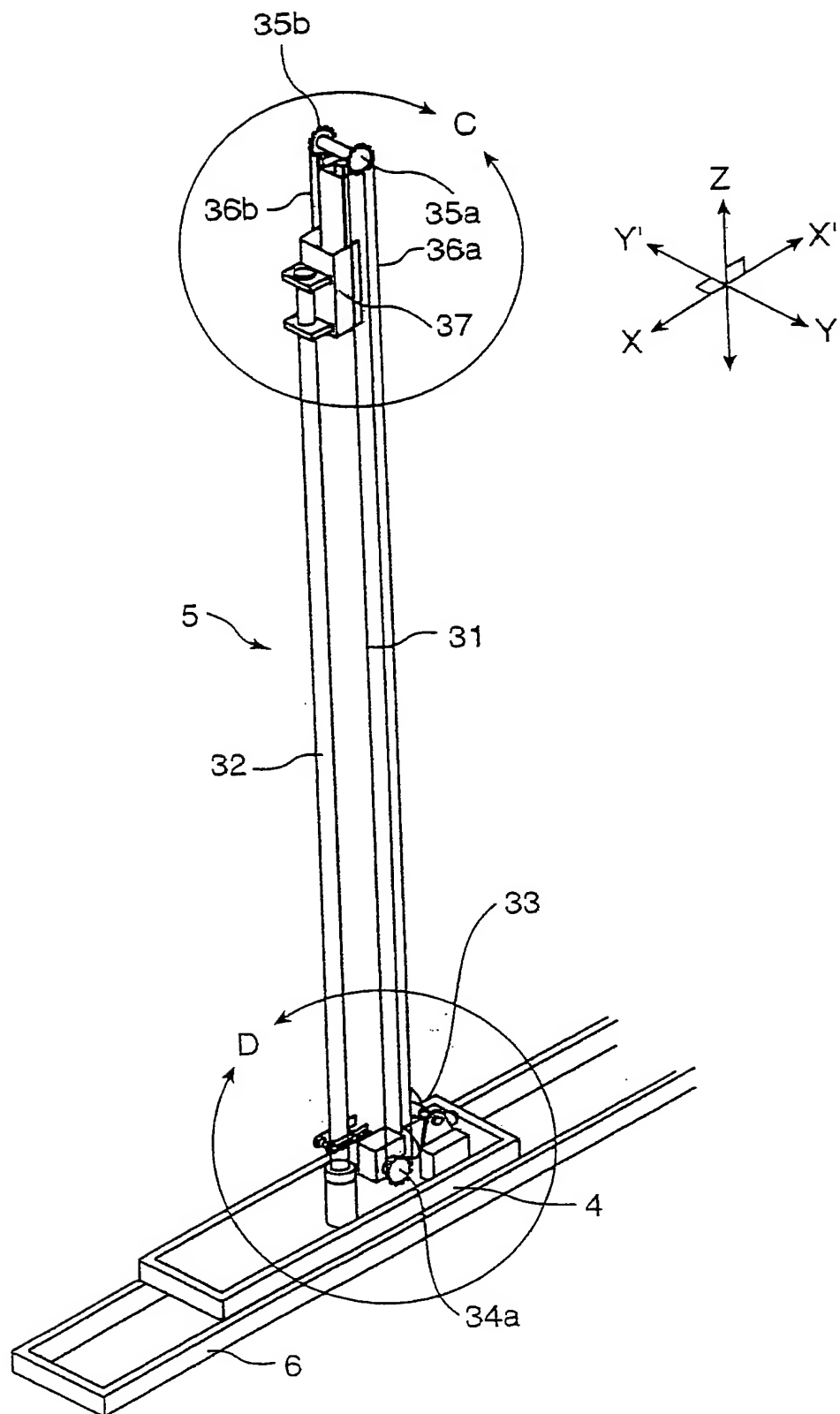


FIG.7

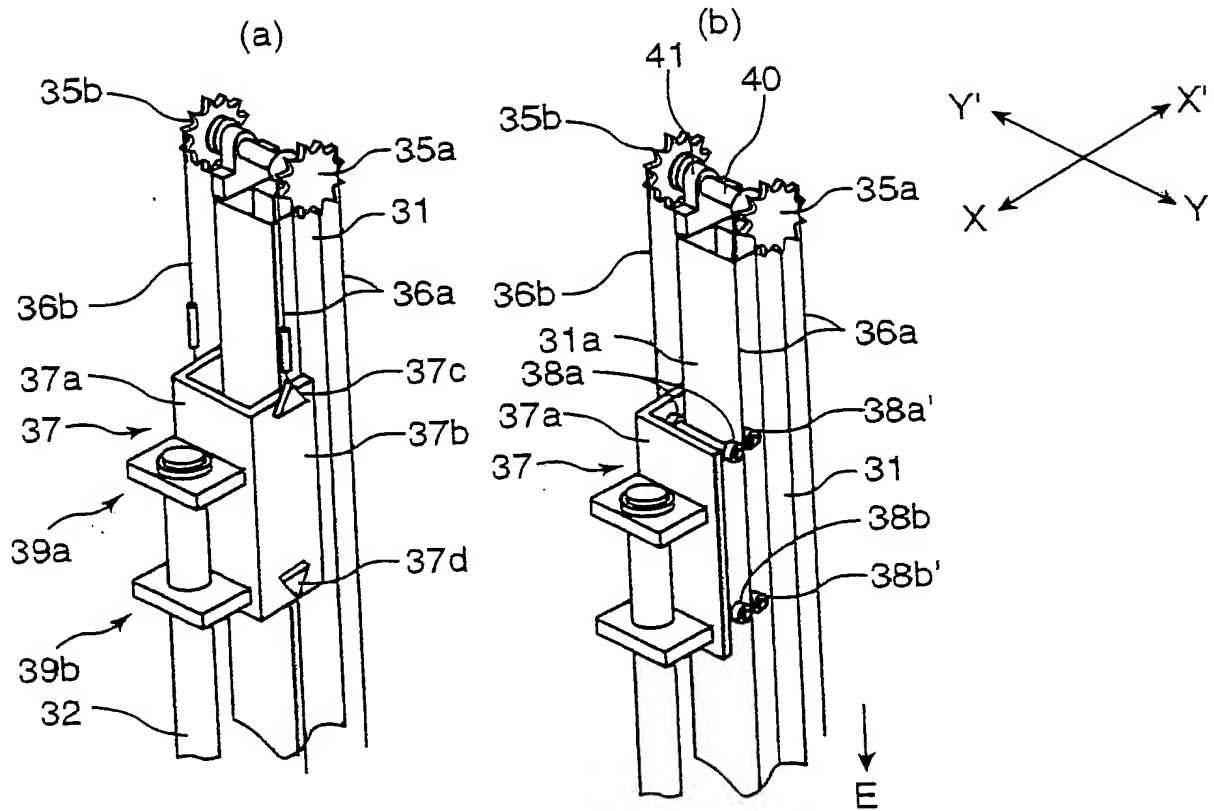


FIG.8

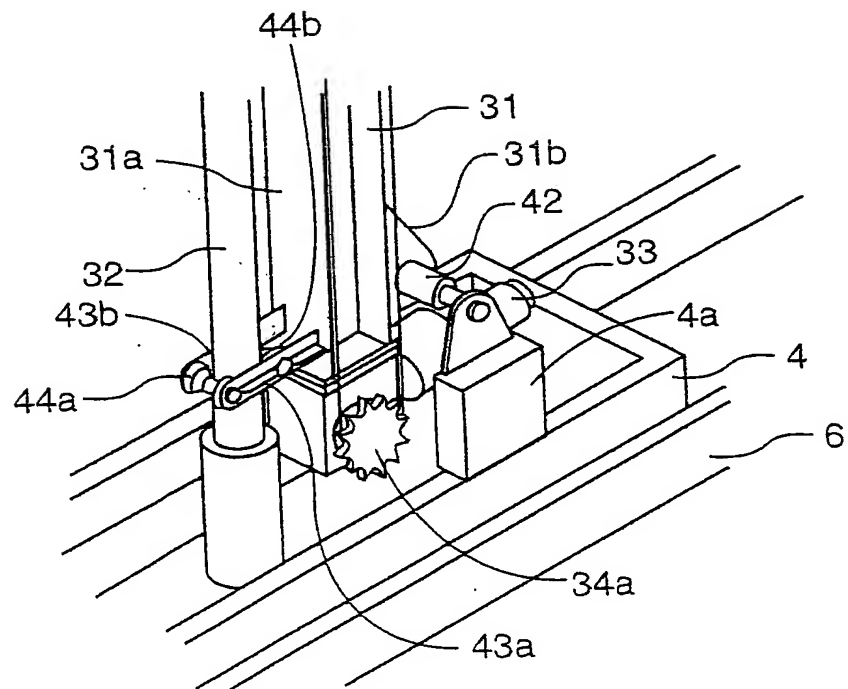


FIG.9

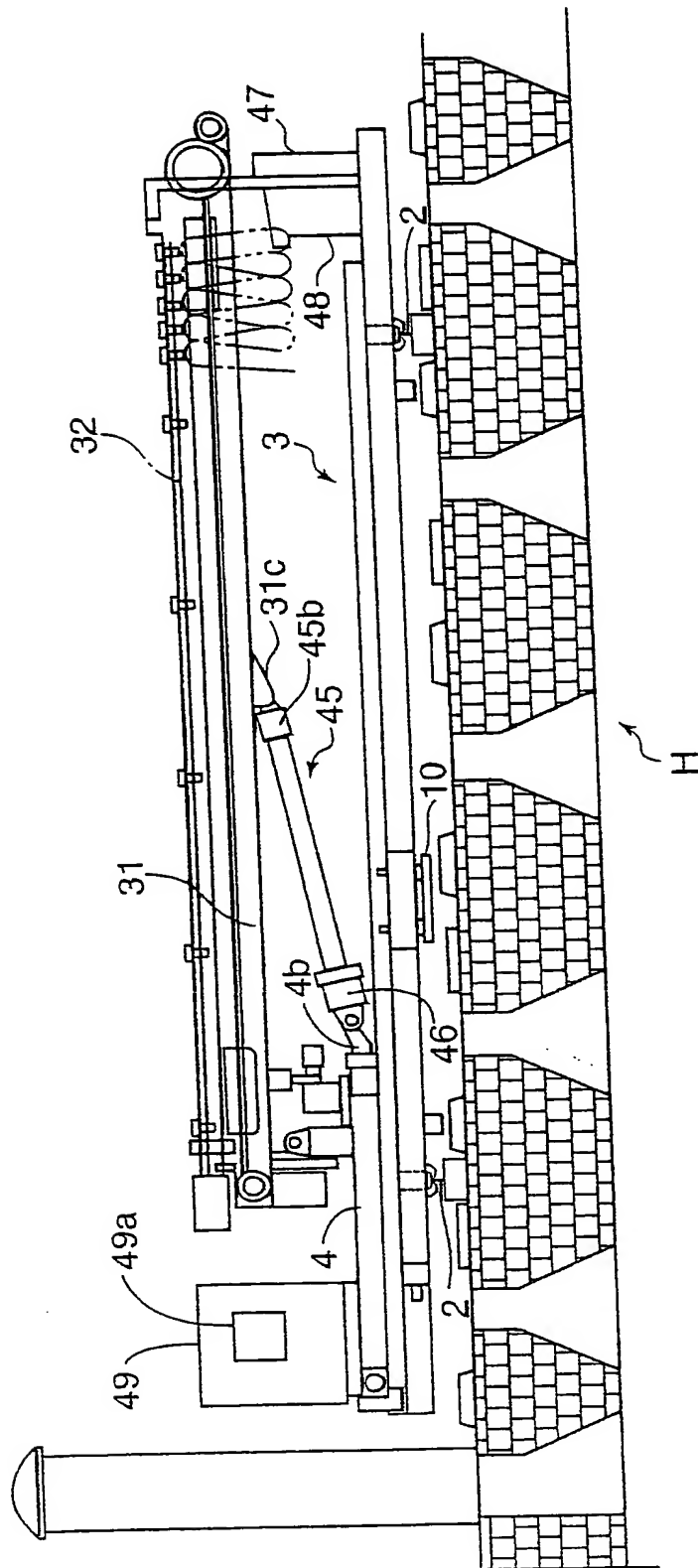




FIG.10

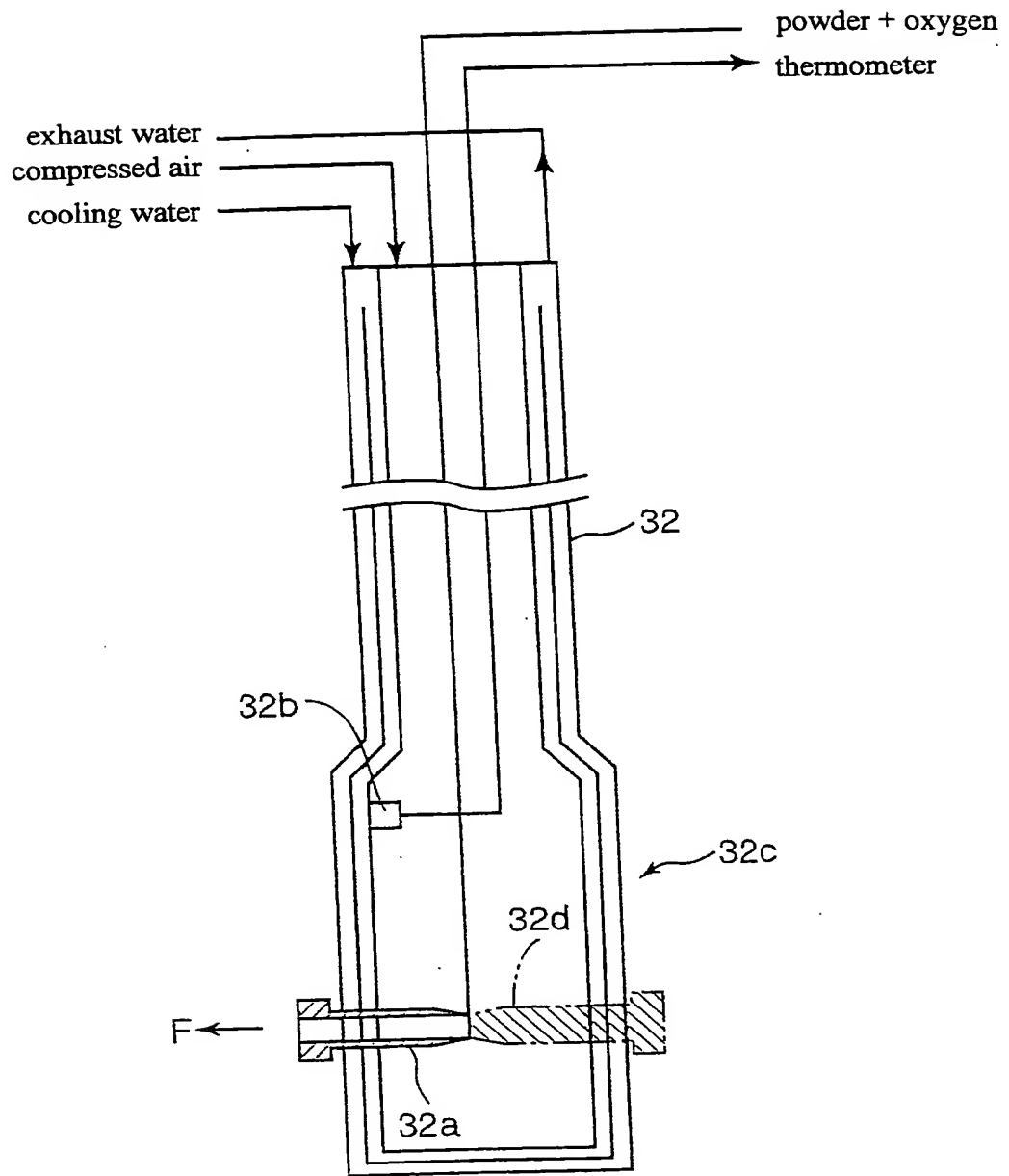


FIG.11

↔ direction of coke oven length

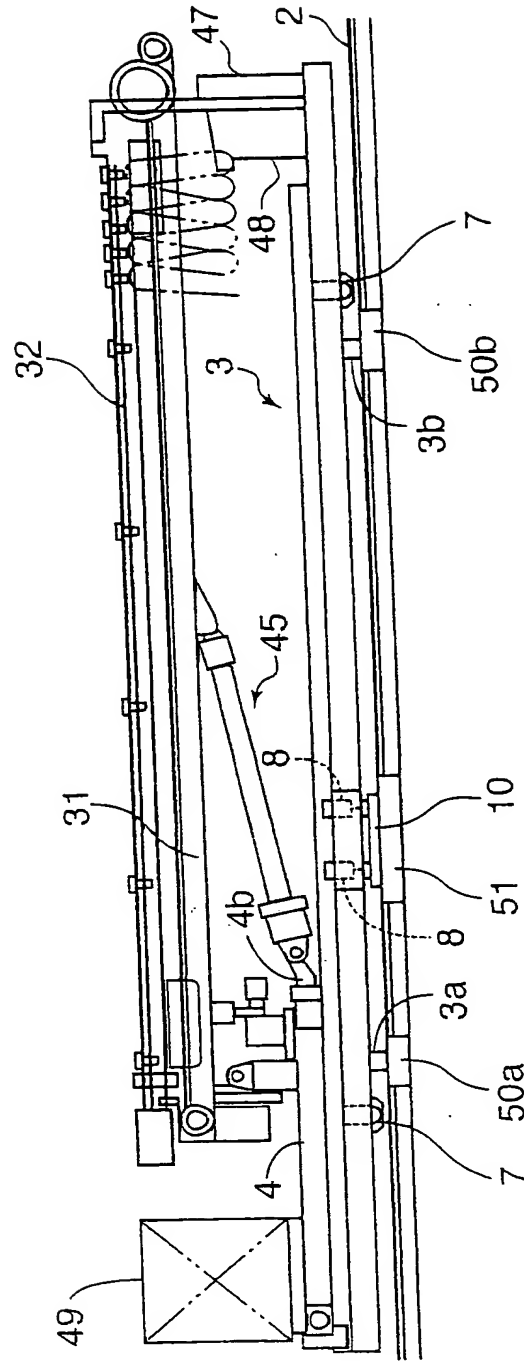


FIG.12

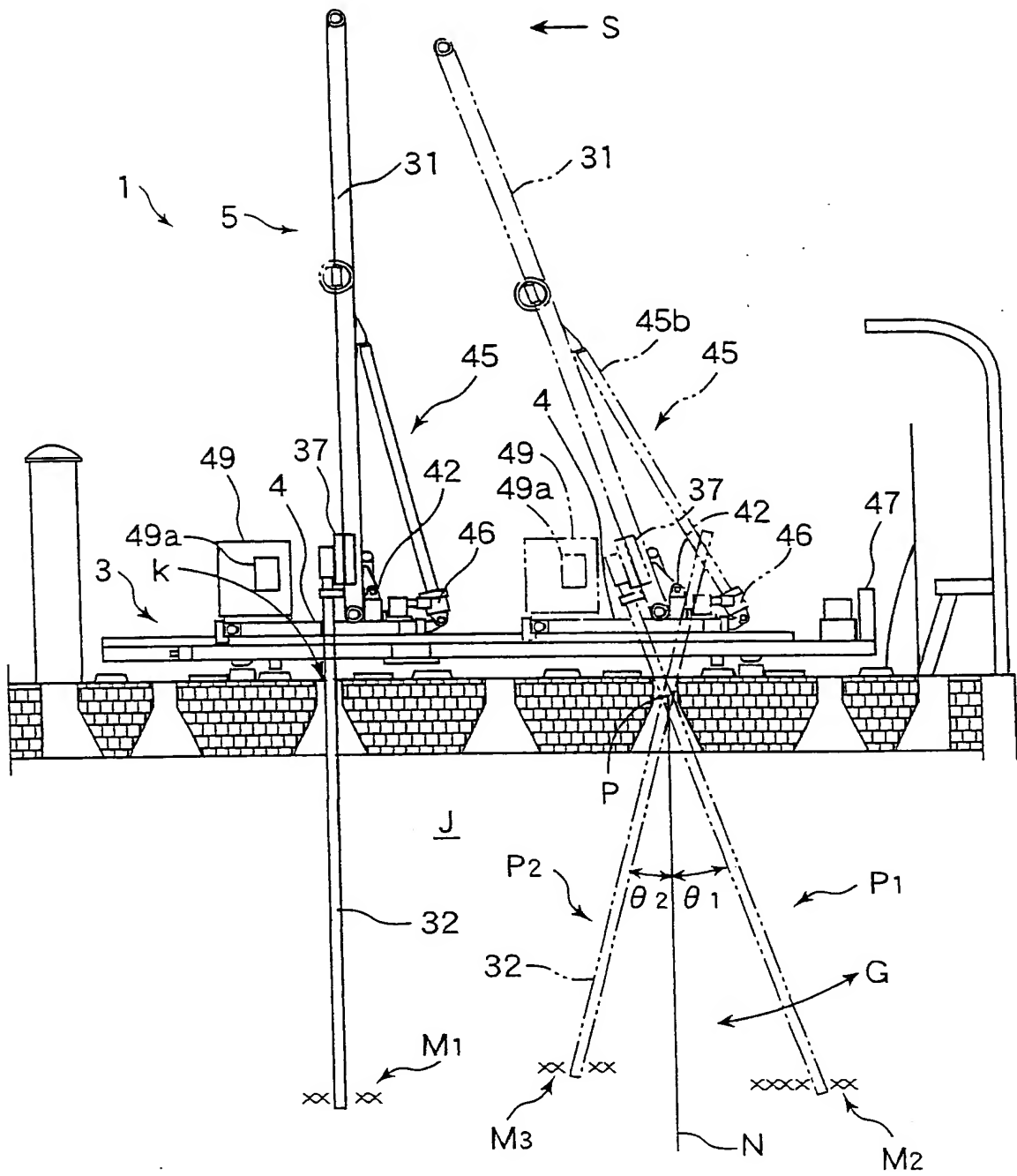


FIG.13

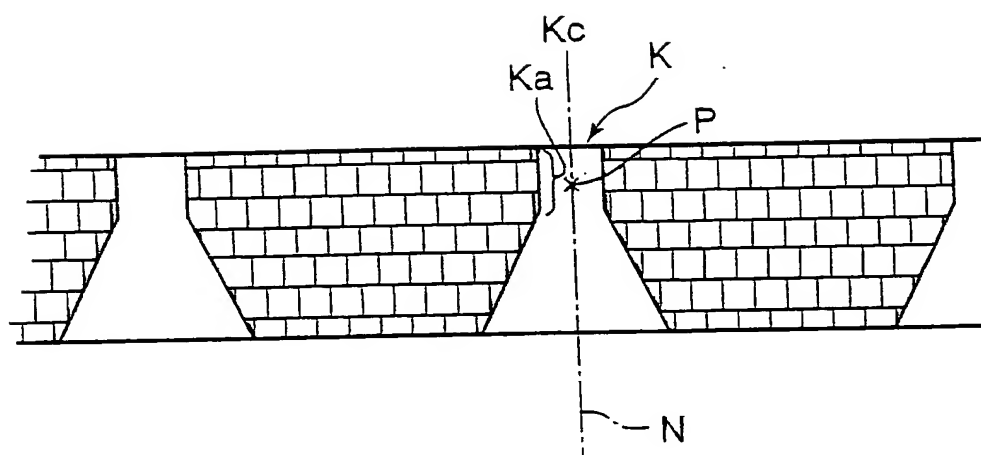


FIG.14

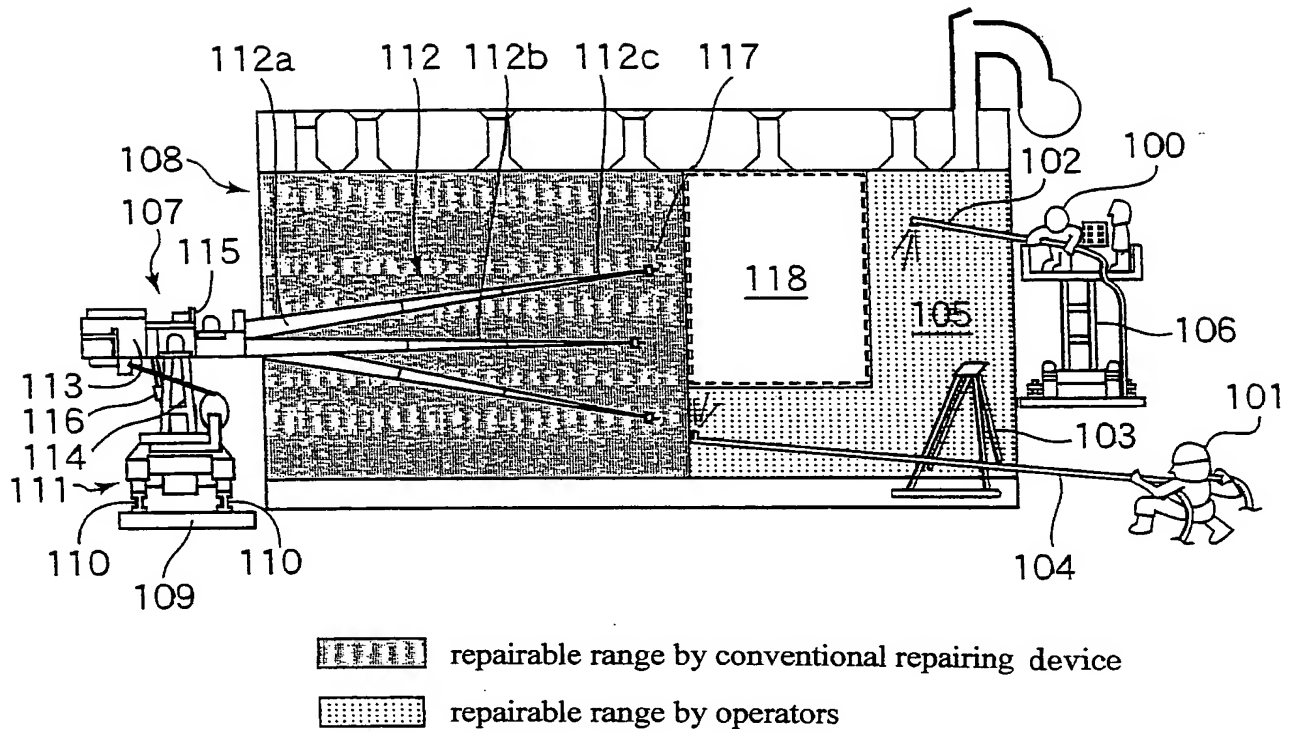


FIG.15

